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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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LEE & HAYES PLLC
421 W RIVERSIDE AVENUE SUITE 500
SPOKANE, WA 99201

EXAMINER

HOFFMAN, BRANDON S

ART UNIT PAPER NUMBER

2136

DATE MAILED: 07/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental
Notice of Allowability

Application No.

09/608,209

Examiner

Brandon S Hoffman

Applicant(s)

ENGLAND ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to after final amendment filed March 14, 2005.
2. ☒ The allowed claim(s) is/are 38-41, 43-45, 47-50 and 53.
3. ☒ The drawings filed on 30 June 2000 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


AYAZ SHEIKH
SUPERVISORY PATENT EXAMINER
BIOLOGY CENTER 2100

DETAILED ACTION

Allowable Subject Matter

1. Claims 38-41, 43-45, 47-50, and 53 are allowed.
2. The following is an examiner's statement of reasons for allowance: in view of the last filed amendment, dated March 14, 2005, applicant explains the deficiencies of combining the three cited references, i.e., Thue, Maeshima et al., and Kohn et al. The three references are from different technologies and cannot be reasonably combined to derive the claimed invention (See pages 10, 11, and 13-15 of last filed Amendment, March 14, 2005). The limitation of selecting which line is used to transmit the signals based on a matrix multiplication operation differentiates over the prior art of record.

Any comments considered necessary by the applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kasey C. Christie, registration number 40,559, on March 23, 2005.

IN THE CLAIMS:

38. (Amended) A method of processing first, second, and third video signals for use in a system having first, second, third and fourth signal lines, wherein the first, second, and third signal lines couple a source device to a destination device, a pseudo-random number generator being contained within the source device, the method comprising:

operating the source device to communicate with the destination device so as to establish a session key and synchronization information via one or all of the first, second, third and fourth signal lines during a vertical blanking period;

operating the pseudo-random number generator to generate said pseudo-random output values as a function of the established session key;

generating a fourth signal;

generating, using said pseudo-random number generator, pseudo-random output values; and

for each of the first, second, third and fourth signal lines, selecting, for transmission thereon, one of the first, second, third, and fourth signals, the selection being performed in a mutually exclusive manner and as a function of at least one of said pseudo-random output values, the selection also being performed by a matrix multiplication operation performed on the first, second, third and fourth signals utilizing matrix coefficients generated from a plurality of the pseudo-random output values,

wherein the first, second and third signals are red, green and blue video signals, respectively, the method further comprising the steps of encrypting horizontal synchronization information into at least one of said red, green and blue video signals

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prior to changing which ones of the first, second, third and fourth signal lines are used to transmit said first, second and third signals.

42. (Canceled)

43. (Amended) The method of claim 38, further comprising:

transmitting a horizontal synchronization signal over said fourth line prior to using the fourth line to transmit one of said first, second and third video signals.

45. (Amended) A method of processing first, second, and third video signals which are coupling a source device to a destination device, the method comprising:

generating a fourth video signal;

operating the source device to communicate with the destination device so as to establish a session key and synchronization information via one or all of the first, second, third and fourth video signals during a vertical blanking period;

transmitting the first, second, third, and fourth video signals over first, second, third and fourth lines, the transmitting including periodically swapping the lines used to transmit the first, second, third and fourth video signals; and

modifying at least one of said first, second and third signals prior to transmitting them, the modifying including modulating horizontal synchronization information on each of said first, second, and third video signals.

wherein periodically swapping the lines used to transmit the first, second, third and fourth video signals includes the act of performing a matrix multiplication operation on the first, second, third and fourth video signals to determine the line on which each of the video signals are transmitted.

46. (Canceled)

47. (Amended) The method of claim 45, further comprising:
operating a pseudo random number generator to generate a set of values; and
wherein said matrix multiplication operation is performed as a function of said set of generated values.

49. (Amended) A video adapter comprising:
a video signal generation means for generating a fourth video signal;
a session key establishing means for establishing a session key and
communicating synchronization information via one or all of a first, second, third and fourth signal lines during a vertical blanking period;
a pseudo-random number generation means for generating pseudo-random output values as a function of the established session key; and
selection means for selecting one of the first, second, third, and fourth video signals for transmission over each of the first, second, third and fourth signal lines.

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wherein the selection means includes use of a matrix multiplier and further comprising means for modulating horizontal synchronization information on one of the first, second, third, and fourth video signals.

51. (Canceled)

52. (Canceled)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandon Hoffman whose telephone number is 571-272-3863. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Branda Huff

BH

Ayaz Sheikh
AYAZ SHEIKH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100